

# Recombinant Full Length Human PAPP A Protein, C-Flag-tagged

**Cat. No.** PAPP A-1798HFL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human PAPP A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	This gene encodes a secreted metalloproteinase which cleaves insulin-like growth factor binding proteins (IGFBPs). Following IGFBP cleavage, insulin growth factors dissociate from IGFBPs and bind to IGF receptors, resulting in activation of the IGF pathway. The encoded protein plays a role in bone formation, inflammation, wound healing and female fertility. Enhanced expression of this protein is associated with diabetic nephropathy in human patients and this protein may promote tumor invasion and growth in various human cancers.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	178.6 kDa
<b>AA Sequence</b>	MRLWSWVLHLGLLSAALGCGLAERPRRARRDPRAGRPPRPAAGPATCATRAARG RRASPPPPPPGGAW E AVRVP RRRRQQREARGATEEPSPPSRALYFSGRGEQLRL RADLELPRDAFTLQVWLRAEGGQRSPAVITGL YDKCSYISRDRGWVVGIHTISDQD NKDP RYFFSLKTDRARQVTTINAHRSYLPQWVYLAATYDGQFMKL YVNGAQVAT SGEQVGGIFSP LTKCKVLMLGGSALNHNYRGYIEHFSLWKVARTQREILSDMETH

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GAHTA LPQLLLQENWDNVKHAWSMKDGSPPKVEFSNAHGFLDTSLEPPLCGQT  
LCDNTEVIASYNQLSSFRQP KVVRYRVVNLVEDDHKNPTVTREQVDFQHHQLAEAF  
KQYNISWELDVLEVSNSLRRRLILANCDISKIG DENCDPECNHTLTGHDGGDCRHL  
RHPAFVKKQHNGVCDMDCNYERFNFDGGCECDPEITNVTQTCFDPDS PHRAYLDV  
NELKNILKLDGSTHLNIFFAKSSEEELAGVATWPWDKEALMHLGGIVLNPSFYGMPG  
HTHTM IHEIGHSLGLYHVFRGISEIQSCSDPCMETEPSFETGDLCDNTNPAPKHKSC  
GDPGPGNDTCGFHSFFNT PYNFMSYADDDCTDSFTPNQVARMHCYLDLVYQGW  
QPSRKPAVALAPQVLGHTTDSVTLEWFPPIDGH FFERELGSACHLCLEGRILVQYA  
SNASSPMPCSPSGHWSPREAEGHPDVEQPCKSSVRTWSPNSAVNPHT VPPACPE  
PQGCYLELEFLYPLVPESLTIWVTFVSTDWDSSGAVNDIKLLAVSGKNISLGPQNVFC  
DVPLT IRLWDVGEVYGIQIYTLDEHLEIDAAMLTSTADTPLCLQCKPLKYKVVDRPP  
LQMDVASILHLNRKFVD MDLNLGSVYQYVWITISGTEESESPAVTYIHGSGYCGDG  
IIQKDQGEQCDDMNKINGDGCSLFCRQEVS FNCIDEPSRCYFHDGDGVCEEFEQKT  
SIKDCGVYTPQGFLDQWASNASVSHQDQQCPGWVIIGQPAASQV CRTKVIDLSEGI  
SQHAWYPCTISYPYSQLAQTTFWLRAYSQPMVAAAIVVHLVTDGTYYGDKQKQETIS  
V QLLDTKDQSHDLGLHVLSCRNNLIIPVVHDLSPFYHSQAVRVSFSSPLVAISGV  
ALRSFDNFDPVTLSCQRGETYSPAQSCVHFACEKTDCPELAVENASLNCSSSD  
RYHGAQCTVSCRTGYVLQIRRDDELIKSQ TGPSVTVTCTEGKWNKQVACEPVDCSI  
PDHHQVYAASFSCPEGTTFGSQCSFQCRHPAQLKGNNLLTCM EDGLWSFPEAL  
CELMCLAPPPVPNADLQTARCRENKHKVGSGFKYKCKPGYHVPVGSRRKSKKRAFK  
TQCT QDGSWQEGACVPVTCPPPPKFHGLYQCTNGFQFNSECRKCEDSDASQG  
LGSNVIHCRKDGTWNGSFHV CQEMQGQCSVPNELNSNLKQCPDGYAIGSECATS  
CLDHNSEIILPMNVTVRDIPHWLNPTRVERVVCT AGLKWYPHPALIHCVKGCEPFM  
GDNYCDAINNRAFCNYDGGDCCTSTVKTKKVTFFPMSCDLQGDCACRD PQAQEH  
SRKDLRGYSHG SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining.

**Stability** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Families</b>	Druggable Genome, Protease, Secreted Protein
<b>Full Length</b>	Full L.

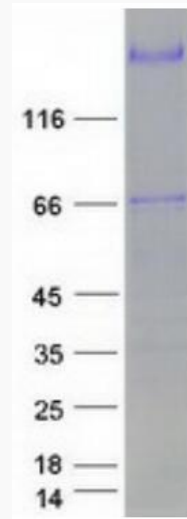
## GENE INFORMATION

<b>Gene Name</b>	<a href="#">PAPPA</a> <a href="#">pappalysin 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	<a href="#">PAPPA</a>
<b>Synonyms</b>	<a href="#">PAPA</a> ; <a href="#">DIPLA1</a> ; <a href="#">PAPP-A</a> ; <a href="#">PAPPA1</a> ; <a href="#">ASBABP2</a> ; <a href="#">IGFBP-4ase</a>
<b>Gene ID</b>	<a href="#">5069</a>
<b>mRNA Refseq</b>	<a href="#">NM_002581.5</a>
<b>Protein Refseq</b>	<a href="#">NP_002572.2</a>
<b>MIM</b>	<a href="#">176385</a>
<b>UniProt ID</b>	<a href="#">Q13219</a>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Coomassie blue staining of purified PAPP-A protein.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA